

Title (en)

Arrangement for recovering data bits of a data signal

Title (de)

Anordnung zur Rückgewinnung von Datenbits eines Datensignals

Title (fr)

Dispositif pour la récupération des bits de données d'un signal de données

Publication

EP 1104192 B1 20121017 (DE)

Application

EP 00204063 A 20001117

Priority

DE 19956937 A 19991126

Abstract (en)

[origin: EP1104192A2] The position of data bit to be recovered is determined from the phase signal and known modulation frequency of the data bit. For each data bit to be recovered, it is determined if its position lies about a sample value in a tolerance window and uses sample value to recover data bit. Phasing signal supplies phase location of data bits of sampled data signal relative to predetermined start point. Phase signal and known modulation frequency of data bits determine position of recovered data bits. For each data bit to be recovered, it is determined if its position lies in a tolerance window of specific width about the position of a sample value. If this is the case, the value in the tolerance window is used for the recovery of the data bit. If the position of the data bit to be recovered does not lies in the tolerance window, both sample values positioned on both sides of the position of the data bit to be recovered, are used for the recovery of the data bit. Tolerance window has width of plus/minus 20 degrees w.r.t period length of 360 degrees of data bit.

IPC 8 full level

H04N 5/14 (2006.01); **H04N 7/035** (2006.01); **H04L 7/033** (2006.01); **H04L 27/00** (2006.01); **H04L 27/22** (2006.01); **H04N 7/025** (2006.01); **H04N 7/03** (2006.01); **H04N 7/08** (2006.01); **H04N 7/088** (2006.01)

CPC (source: EP KR US)

H04L 7/0334 (2013.01 - EP US); **H04N 7/0352** (2013.01 - EP US); **H04N 7/08** (2013.01 - KR); **H04N 7/0882** (2013.01 - EP US)

Designated contracting state (EPC)

DE FR GB

DOCDB simple family (publication)

EP 1104192 A2 20010530; **EP 1104192 A3 20031112**; **EP 1104192 B1 20121017**; DE 19956937 A1 20010531; JP 2001203765 A 20010727; JP 4592928 B2 20101208; KR 100819342 B1 20080404; KR 20010051963 A 20010625; US 6665018 B1 20031216

DOCDB simple family (application)

EP 00204063 A 20001117; DE 19956937 A 19991126; JP 2000356453 A 20001122; KR 20000070730 A 20001125; US 72280500 A 20001127